

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 130 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	04/09/90	Elevation:	540 metres
Map Ref.:	Sheet No. : 7957 GPS	Rainfall:	No Data
Northing/Long.:	7744060 AMG zone: 55	Runoff:	Very rapid
Easting/Lat.:	305341 Datum: AGD66	Drainage:	Well drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, No Data

Land Form

Rel/Slope Class:	Steep low hills 30-90m 32-56%	Pattern Type:	Low hills
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	5 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol Medium Very gravelly Clay-loamy Clayey Moderately deep		Principal Profile Form:	Dr2.12
ASC Confidence:		Great Soil Group:	Non-calci brown soil
Analytical data are incomplete but reasonable confidence.			

Site Disturbance: Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Bothriochloa ewartiana, Aristida species, Enneapogon species Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus quadricostata, Canthium oleifolium, Eucalyptus

 Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus quadricostata, Eucalyptus papuana, Eucalyptus erythrophloia

Surface Coarse Fragments: 50-90%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

A	0 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Dry; Weak consistence; 50-90%, coarse gravelly, 20-60mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B2	0.2 - 0.7 m	Red (2.5YR4/6-Moist); ; Light medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.7); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.2	6.7A		5.2B	1.4	0.41	0.09			
0.2 - 0.7	7.7A		5.1J	1.9	0.6	0.1		8.8I	1.14

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension